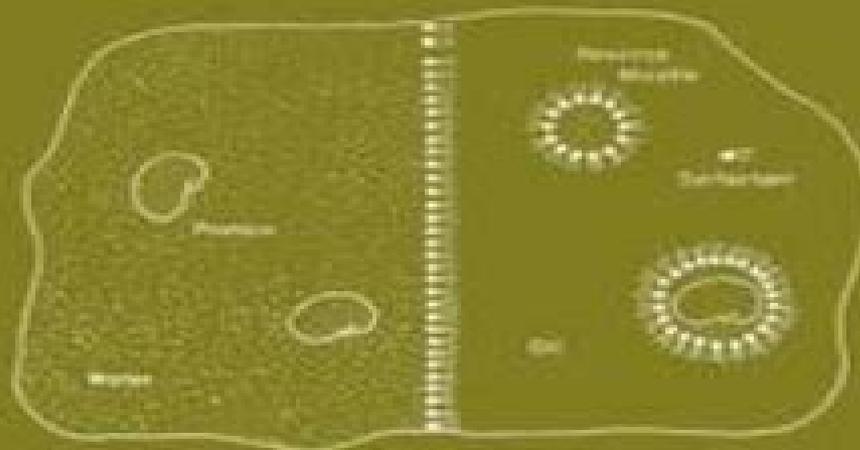


surfactant science series
volume **33**

SURFACTANT-BASED SEPARATION PROCESSES



edited by
John F. Scamehorn
Jeffrey H. Harwell

Surfactant Based Separation Processes

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Surfactant Based Separation Processes:

Surfactant-Based Separation Processes ..., 1989 Surfactant - Based Separation Processes Scamehorn, 2020-11-25
Complete with bibliographic citations and illustrations this volume focuses on novel techniques and reviews established methods for surfactant based separation processes that can be widely applied in industry Describes new extraction techniques and introduces micellar enhanced ultrafiltration and admicellar chromatography discusses protein extraction using reverse micelles surfactant enhanced carbon regeneration and demonstrates new methods of turning waste streams containing dilute concentrations of valuable materials into product streams and examines such traditional surfactant based methods as froth flotation and foam fractionation **Surfactant-based Separations** John F. Scamehorn, 2000 Because they are biodegradable and work well in low energy separations surfactants are an active area of interest in separations science This book covers surfactant based separations for the chemical and biochemical process industries and analytical chemistry It includes discussion of widely used processes and novel techniques such as surfactant enhanced ultrafiltration ground water and soil remediation surfactant absorption and flotation processes extraction processes recycling of paper and plastics using surfactant and analytical separations using surfactants *Surfactants in Chemical/Process Engineering* Wasan, 1988-05-19 The first reference to link chemical engineering technologies and surfactant science in such breadth of focus Surfactants in Chemical Process Engineering features contributions by major authorities in chemical engineering whose applications have opened important new fields for surfactant use These applications include dispersion science separation processes oil recovery microemulsions and environmental control This volume discusses ultrafiltration processes flotation metal extractions and more examines surfactants in process streams for such industrial separations as micellar enhanced ultrafiltration adsorbent regeneration micellar extractions and oil water demulsification describes methodologies for separations of fatty acids metals minerals and impurities solvents and hydrocarbons for cost saving industrial and consumer product manufacture details techniques for developing and optimizing formulations for superior agricultural plant control or enhancement systems micro and macroemulsions and liquid surfactant membranes and looks closely at emulsion polymers in soil stabilizations protective coatings sealants adhesives textile processing paper finishing specialty concretes and tire manufacture Book jacket Novel Applications of Ferrocene Based Surfactants Craig Rosslee, 2003 Metal-ion Separation and Preconcentration Andrew H. Bond, 1999 The collection discusses the role of separations in nuclear processing the influence and use of aqueous phases in separations extractant design and synthesis liquid liquid and solid liquid distribution membrane separations and supercritical fluid extractions With a balance of fundamental and applied research the book covers the most significant recent advances in metal ion separations Analysis of Surfactants Thomas M. Schmitt, 1992 Presents descriptions and practical examples of all techniques applied to the analysis of surfactants from the characterization of commercial compounds to their determination in formulated products and their detection at trace levels

in the environment Literature is reviewed through 1990 with app Phenomena in Mixed Surfactant Systems John F. Scamehorn,1986 **Thermodynamics, Phase Behavior, and Rheology of Surfactant Mixtures** Hongda Zhang,1998 The Structure, Dynamics and Equilibrium Properties of Colloidal Systems David Bloor,E. Wyn-Jones,1990-10-31 Proceedings of the NATO Advanced Study Institute on Properties of Colloidal Systems Aberystwyth Wales U K September 10 23 1989 **Journal of the Association of Official Analytical Chemists** Association of Official Analytical Chemists,1989 **Cloud Point Extraction and Preconcentration Procedures for Organic and Related Pollutants of State Concern** Willie L. Hinze,1992 Fluorinated Surfactants Erik Kissa,1994 This volume in the Surfactant Science series provides coverage of fluorinated surfactants their basic science and related theories It highlights diverse aspects of fluorinated surfactants and systems including liquid vapour and liquid liquid interface solid liquid interface solutions of fluorinated surfactants and the structure of micelles and mesophases **Adsorption of Surfactants by a Chelating Resin :effects on Floatability and Metal Loading** Saskia Duyvesteyn,1997 *Journal of Fermentation and Bioengineering* ,1993 **Characterization and Modeling of Aqueous Micellar Surfactant Solutions** Delaina Annette Amos,1996 **Alternative Separation Processes** Don W. Green,Robert H. Perry,2007-10-26 Get Cutting Edge Coverage of All Chemical Engineering Topics from Fundamentals to the Latest Computer Applications First published in 1934 Perry s Chemical Engineers Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data Now updated to reflect the latest technology and processes of the new millennium the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications Filled with over 700 detailed illustrations the Eighth Edition of Perry s Chemical Engineering Handbook features Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories Inside This Updated Chemical Engineering Guide Conversion Factors and Mathematical Symbols Physical and Chemical Data Mathematics Thermodynamics Heat and Mass Transfer Fluid and Particle Dynamics Reaction Kinetics Process Control Process Economics Transport and Storage of Fluids Heat Transfer Equipment Psychrometry Evaporative Cooling and Solids Drying Distillation Gas Absorption and Gas Liquid System Design Liquid Liquid Extraction Operations and Equipment Adsorption and Ion Exchange Gas Solid Operations and Equipment Liquid Solid Operations and Equipment Solid Solid Operations and Equipment Size Reduction and Size Enlargement Handling of Bulk Solids and Packaging of Solids and Liquids Alternative Separation Processes And Many Other Topics *Solvent Extraction in the Process Industries* D. H. Logsdail,M. J. Slater,1993 Chemical Abstracts Service Source Index American Chemical Society. Chemical Abstracts Service,1907 A key source to journal and conference abbreviations in the sciences Although it

focuses on chemistry other scientific and engineering disciplines are also well represented In addition to the abbreviation and full title each entry also contains publishing info title changes language and frequency of publication and libraries owning that title Over 130 000 entries representing more than 70 000 publications dating back to 1907 are included

Removal of Metal Ions from Dilute Aqueous Solutions by Ion Flotation Zhendong Liu,2001

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